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Sequence Listing was accepted.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2008; month=2; day=20; hr=14; min=10; sec=42; ms=201;]

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Application No: 10525126 Version No: 2.1

Input Set:

Output Set:

Started: 2008-02-20 14:07:54.507
Finished: 2008-02-20 14:08:06.287
Elapsed: 0 hr(s) 0 min(s) 11 sec(s) 780 ms
Total Warnings: 189
Total Errors: 58
No. of SeqIDs Defined: 362
Actual SeqID Count: 362

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (62)
W 213	Artificial or Unknown found in <213> in SEQ ID (63)
W 213	Artificial or Unknown found in <213> in SEQ ID (64)
W 213	Artificial or Unknown found in <213> in SEQ ID (65)
W 213	Artificial or Unknown found in <213> in SEQ ID (66)
W 213	Artificial or Unknown found in <213> in SEQ ID (67)
W 213	Artificial or Unknown found in <213> in SEQ ID (68)
W 213	Artificial or Unknown found in <213> in SEQ ID (69)
W 213	Artificial or Unknown found in <213> in SEQ ID (70)
W 213	Artificial or Unknown found in <213> in SEQ ID (71)

Input Set:

Output Set:

Started: 2008-02-20 14:07:54.507
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Actual SeqID Count: 362

Error code	Error Description
	This error has occurred more than 20 times, will not be displayed
W 402	Undefined organism found in <213> in SEQ ID (87)
W 402	Undefined organism found in <213> in SEQ ID (99)
W 402	Undefined organism found in <213> in SEQ ID (100)
W 402	Undefined organism found in <213> in SEQ ID (119)
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W 402	Undefined organism found in <213> in SEQ ID (122)
W 402	Undefined organism found in <213> in SEQ ID (123)
W 402	Undefined organism found in <213> in SEQ ID (124)
W 402	Undefined organism found in <213> in SEQ ID (125)
W 402	Undefined organism found in <213> in SEQ ID (126)
W 402	Undefined organism found in <213> in SEQ ID (127)
W 402	Undefined organism found in <213> in SEQ ID (128)
W 402	Undefined organism found in <213> in SEQ ID (129)
W 402	Undefined organism found in <213> in SEQ ID (130)
W 402	Undefined organism found in <213> in SEQ ID (131)
W 402	Undefined organism found in <213> in SEQ ID (132)
W 402	Undefined organism found in <213> in SEQ ID (133)
W 402	Undefined organism found in <213> in SEQ ID (134)
W 402	Undefined organism found in <213> in SEQ ID (135)
	This error has occurred more than 20 times, will not be displayed
E 322	CDS location out of range SEQID (272) At Protein count (34)

Input Set:

Output Set:

Started: 2008-02-20 14:07:54.507
Finished: 2008-02-20 14:08:06.287
Elapsed: 0 hr(s) 0 min(s) 11 sec(s) 780 ms
Total Warnings: 189
Total Errors: 58
No. of SeqIDs Defined: 362
Actual SeqID Count: 362

Error code	Error Description
E 320	Wrong Nucleic Acid Designator, ct in SEQID (272)
E 257	Invalid sequence data feature in <221> in SEQ ID (298)
E 257	Invalid sequence data feature in <221> in SEQ ID (302)
E 257	Invalid sequence data feature in <221> in SEQ ID (302)
E 257	Invalid sequence data feature in <221> in SEQ ID (305)
E 257	Invalid sequence data feature in <221> in SEQ ID (305)
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E 257	Invalid sequence data feature in <221> in SEQ ID (306)
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E 257	Invalid sequence data feature in <221> in SEQ ID (310) This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> DOUGLAS, SUSAN
GALLANT, JEFFREY
PATRZYKAT, ALEKSANDER

<120> A GENOMIC APPROACH TO IDENTIFICATION OF NOVEL
BROAD-SPECTRUM ANTIMICROBIAL PEPTIDES FROM BONY FISH

<130> 6899-6 LAB

<140> 10525126

<141> 2005-02-18

<150> PCT/CA03/001323

<151> 2003-08-22

<150> 60/404,922

<151> 2002-08-22

<160> 362

<170> PatentIn Ver. 3.3

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<211> 11

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
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<223> Description of Artificial Sequence: Synthetic
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32

<210> 3

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<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

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<211> 32

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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

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<210> 5

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 5

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<210> 6

<211> 20

<212> DNA

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<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 6

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<210> 7

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

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<212> DNA
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<220>
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primer

<400> 8
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peptide

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primer

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<210> 13

<211> 6

<212> PRT

<213> Pleuronectes americanus

<400> 13

Tyr Gln Glu Gly Glu Glu

1 5

<210> 14

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<210> 15

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<213> Pleuronectes americanus

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1 5

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<210> 17

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<212> PRT

<213> Pleuronectes americanus

<400> 17

Lys Ala Ala His Val Gly

1 5

<210> 18

<211> 18

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<212> DNA

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<210> 20

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<400> 20

Phe Leu Gly Ala Leu Ile Lys

1 5

<210> 21

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<211> 6

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<400> 22

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1 5

<210> 23

<211> 18

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<210> 24

<211> 6

<212> PRT

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1 5

<210> 25

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20

<210> 27

<211> 6

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<213> *Pleuronectes americanus*

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1 5

<210> 28

<211> 18

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<210> 29

<211> 6

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<213> *Pleuronectes americanus*

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Ser Phe Asp Asp Asn Pro

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<210> 30

<211> 18

<212> DNA

<213> *Pleuronectes americanus*

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<p><400> 31</p> <p>Arg Ser Thr Glu Asp Ile</p> <p>1 5</p>	
<p><210> 32</p> <p><211> 18</p> <p><212> DNA</p> <p><213> Pleuronectes americanus</p>	
<p><400> 32</p> <p>cgttctacag aggacatc</p>	18
<p><210> 33</p> <p><211> 6</p> <p><212> PRT</p> <p><213> Pleuronectes americanus</p>	
<p><400> 33</p> <p>Asp Asp Asp Asp Ser Pro</p> <p>1 5</p>	
<p><210> 34</p> <p><211> 18</p> <p><212> DNA</p> <p><213> Pleuronectes americanus</p>	
<p><400> 34</p> <p>ggggctgtca tcatcatc</p>	18
<p><210> 35</p> <p><211> 6</p> <p><212> PRT</p> <p><213> Pleuronectes americanus</p>	
<p><400> 35</p> <p>Trp Met Glu Asn Pro Thr</p> <p>1 5</p>	
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<210> 37
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<400> 38
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<210> 39
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<400> 41
Trp Met Met Pro Asn Asn
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<210> 42
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<210> 44
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<400> 44
Ala Ala Leu Val Val Asp
1 5

<210> 45
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<400> 45
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<210> 46
<211> 7
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<213> *Pleuronectes americanus*

<400> 46
Val Leu Leu Thr Glu Ala Pro
1 5

<210> 47
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<400> 47
ggagcctcgg tcagcagga 19

<210> 48
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<400> 48

Val Phe Pro Ser Ile Val
1 5

<210> 49
<211> 17
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<400> 49
gtgttccatc catcgtc 17

<210> 50
<211> 7
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<213> *Pleuronectes americanus*

<400> 50
His Thr Phe Tyr Asn Glu Leu
1 5

<210> 51
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<400> 51
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<400> 52
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<210> 53
<211> 18
<212> DNA
<213> *Salmo salar*

<400> 53
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<210> 54
<211> 23
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<400> 54

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<210> 55

<211> 6

<212> PRT

<213> Salmo salar

<400> 55

Met Asn Leu Pro Met His

1 5

<210> 56

<211> 17

<212> DNA

<213> Salmo salar

<400> 56

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<210> 57

<211> 16

<212> DNA

<213> Salmo salar

<400> 57

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<210> 58

<211> 8

<212> PRT

<213> Salmo salar

<400> 58

Ile Val Gly Arg Pro Arg His Gln

1 5

<210> 59

<211> 23

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<213> Salmo salar

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<210> 60

<211> 8

<212> PRT

<213> Salmo salar

<400> 60

Gly Tyr Ala Leu Pro His Ala Ile

<210> 61
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<400> 61
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 pleurocidin-like peptide

<220>
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Ile Gly Gly Ala Leu Asp His Leu
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<210> 63
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 pleurocidin-like peptide

<220>
 <223> c-term amidation

<400> 63
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 1 5 10 15

Leu Asp His Leu
 20

<210> 64
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
pleurocidin-like peptide

<220>

<223> c-term amidation

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Ile Ile Gly Gly Ala Ala Leu Asp His Leu
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<210> 65

<211> 25

<212> PRT

<213> Artificial Sequence

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pleurocidin-like peptide

<220>

<223> c-term amidation

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Gly Lys Ala Ala Leu Thr His Tyr Leu
20 25

<210> 66

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
pleurocidin-like peptide

<220>

<223> c-term amidation

<400> 66

Phe Leu Gly Ala Leu Ile Lys Gly Ala Ile His Gly Gly Arg Phe Ile
1 5 10 15

His Gly Met Ile Gln Asn His His
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<210> 67

<211> 25

<212> PRT
 <213> Artificial Sequence

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 <223> Description of Artificial Sequence: Synthetic
 pleurocidin-like peptide

 <220>
 <223> c-term amidation

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 Gly His Ala Ala Val Asn His Tyr Leu
 20 25

 <210> 68
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 <213> Artificial Sequence

 <220>
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 pleurocidin-like peptide

 <220>
 <223> c-term amidation

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 Arg Trp Gly Lys Trp Phe Lys Lys Ala Thr His Val Gly Lys His Val
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 Gly Lys Ala Ala Leu Thr Ala Tyr Leu
 20 25

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 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 pleurocidin-like peptide

 <220>
 <223> c-term amidation

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 Asn Ala Met Asn Ala
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<210> 70
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
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pleurocidin-like peptide

<220>
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1 5 10 15

Asn Ala Ala

<210> 71
<211> 19
<212> PRT
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<223> Description of Artificial Sequence: Synthetic
pleurocidin-like peptide

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Pro Arg Ala

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<212> PRT
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pleurocidin-like peptide

<220>
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1 5 10 15

Gly Gly Leu Ala Leu Asp His Tyr Leu
20 25

<210> 73

<211> 25

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
pleurocidin-like peptide

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<223> c-term amidation

<400> 73

Gly Trp Lys Lys Trp Phe Asn Arg Ala Lys Lys Val Gly Lys Thr Val
1 5 10 15

Gly Gly Leu Ala Val Asp His Tyr Leu
20 25

<210> 74

<211> 23

<212> PRT

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pleurocidin-like peptide

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1 5 10 15

Leu Ala Leu Lys His Tyr Leu
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<210> 75

<211> 26

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pleurocidin-like peptide

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1 5 10 15

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20 25

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pleurocidin-like peptide

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1 5 10 15

Leu His Leu His Leu
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<210> 77

<211> 19

<212> PRT

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<223> Description of Artificial Sequence: Synthetic
pleurocidin-like peptide

<220>

<223> c-term amidation

<400> 77

Gly Trp Lys Lys Trp Leu Arg Lys Gly Ala Lys His Leu Gly Gln Ala
1 5 10 15

Ala Ile Lys

<210> 78

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Se